

**In the Claims:**

1. (withdrawn) A mounting tool comprising:
  - a base extending along a first direction that is parallel to a longitudinal dimension of said base;
  - a height gage attached to the base, said height gage comprising:
    - a first leg attached to the base and extending along a second direction that is not parallel to said first direction; and
    - a second leg attached to the first leg and comprising a support portion extending along a third direction that is not parallel to second direction.
2. (withdrawn) The mounting tool of claim 1, wherein said height gage is adjustable in length.
3. (withdrawn) The mounting tool of claim 2, wherein said first leg is telescopically received within said second leg.
4. (withdrawn) The mounting tool of claim 2, wherein said second leg is telescopically received within said first leg.

5. (withdrawn) The mounting tool of claim 2, further comprising an adjustment wheel coupled to said first leg and said second leg so that rotation of said adjustment wheel adjusts the length of said height gage.

6. (withdrawn) The mounting tool of claim 3, further comprising an adjustment wheel coupled to said first leg and said second leg so that rotation of said adjustment wheel adjusts the length of said height gage.

7. (withdrawn) The mounting tool of claim 4, further comprising an adjustment wheel coupled to said first leg and said second leg so that rotation of said adjustment wheel adjusts the length of said height gage.

8. (withdrawn) The mounting tool of claim 1, wherein said second leg is magnetic.

9. (withdrawn) The mounting tool of claim 1, wherein said base has a slot that extends along said first direction.

10. (withdrawn) The mounting tool of claim 9, wherein said slot forms an opening extending along said first direction that faces a portion of said base.
11. (withdrawn) The mounting tool of claim 10, wherein said slot and opening have a trapezoidal cross-section when viewed from a plane perpendicular to said first direction.
12. (withdrawn) The mounting tool of claim 9, further comprising an extension guide that is inserted within said slot.
13. (withdrawn) The mounting tool of claim 12, wherein said extension guide has a length that is greater than a length of said slot.
14. (withdrawn) The mounting tool of claim 1, wherein said base comprises a first set of holes that have an orientation with respect to each other that corresponds to the orientation of mounting holes of a position measuring device.
15. (withdrawn) The mounting tool of claim 14, wherein said base comprises a second set of holes that have an orientation with respect to each other that corresponds

to the orientation of mounting holes of a spar into which said position measuring device is inserted.

16. (withdrawn) The mounting tool of claim 14, wherein said position measuring device comprises a linear encoder.

17. (withdrawn) The mounting tool of claim 15, wherein said position measuring device comprises a linear encoder.

18. (withdrawn) The mounting tool of claim 12, wherein said extension guide comprises a hole that has a longitudinal axis that extends perpendicular to said first direction.

19. (withdrawn) The mounting tool of claim 18, wherein said base comprises a hole aligned with said hole of said extension guide; and a locking pin inserted in said hole of said extension guide and said hole of said base so as to attach said extension guide to said base.

20. (withdrawn) The mounting tool of claim 12, wherein said extension guide comprises holes that have an orientation with respect to each other that corresponds to the orientation of mounting holes of a position measuring device.

21. (withdrawn) The mounting tool of claim 20, wherein said extension guide comprises a second set of holes that have an orientation with respect to each other that corresponds to the orientation of mounting holes of a spar into which said position measuring device is inserted.

22. (withdrawn) The mounting tool of claim 20, wherein said position measuring device comprises a linear encoder.

23. (withdrawn) The mounting tool of claim 21, wherein said position measuring device comprises a linear encoder.

24. (canceled)

25. (previously amended) The method of claim 33, wherein said position measuring device comprises a linear encoder.

26. (previously amended) The method of claim 33, wherein said attaching said position measuring device comprises inserting screws into said aligned mounting holes of said position measuring device and said holes formed in said machine tool.

27. (previously amended) The method of claim 33, wherein said template is not a linear encoder.

28. (previously amended) The method of claim 33, wherein said machine tool does not move along an axis of travel from the time of positioning to said time of attaching said position measuring device.

29. (previously amended) The method of claim 33, wherein said template is supported on said machine tool during said positioning.

Claims 30-32 (canceled)

33. (currently amended) A method of mounting a position measuring device to a machine tool, comprising:

attaching a reading head bracket to said machine tool;

positioning a template adjacent to said machine tool, wherein said template comprises a plurality of holes that correspond to all necessary mounting holes of a position measuring device and said template is distinct from said position measuring device;

attaching said template to said reading head bracket;

marking all said necessary mounting holes on said machine tool through said plurality of holes of said template;

detaching said template from said reading head bracket;

forming holes in said machine tool based on positions of said plurality of holes;

aligning said mounting holes of said position measuring device with said holes formed in said machine tool; and

attaching said position measuring device to said machine tool; and

~~attaching said template to a reading head bracket, which is attached to said machine tool, subsequent to said positioning of said template.~~

Claims 34-36 (canceled)

37. (previously amended) The method of claim 45, wherein said position measuring device comprises a linear encoder.

38. (previously amended) The method of claim 45, wherein said attaching of said spar comprises inserting screws into said aligned mounting holes of said position measuring device and said holes formed in said machine tool.

39. (previously amended) The method of claim 45, wherein said template is not a linear encoder.

40. (previously amended) The method of claim 45, wherein said machine tool does not move along an axis of travel from the time of positioning to said time of attaching said spar.

41. (previously amended) The method of claim 45, wherein said template is supported on said machine tool during said positioning.

Claims 42-44 (canceled)

45. (currently amended) A method of mounting a position measuring device to a machine tool, comprising:

attaching a reading head bracket to said machine tool;

positioning a template adjacent to said machine tool, wherein said template comprises a plurality of holes that correspond to all necessary mounting holes of a spar that is to support a position measuring device and said template is distinct from said position measuring device;

attaching said template to said reading head bracket;

marking all said necessary mounting holes on said machine tool through said plurality of holes of said template;

detaching said template from said reading head bracket;

forming holes in said machine tool based on positions of said plurality of holes; aligning said mounting holes of said spar with said holes formed in said machine tool;

attaching said spar to said machine tool; and

attaching said position measuring device to said spar; and

~~attaching said template to a reading head bracket, which is attached to said machine tool, subsequent to said positioning of said template.~~

Claims 46-47 (canceled)

48. (new) The method of claim 33, wherein said attaching of said position measuring device to said machine tool comprises:

attaching said position measuring device by inserting screws in said holes in said machine tool; and

attaching said reading head to said reading head bracket.

49. (new) The method from claim 33, wherein said attaching said template to said reading head bracket comprises aligning said template with respect to said reading head bracket.

50. (new) The method from claim 49, wherein said attaching said template to said reading head bracket further comprises aligning said template with respect to the axis of travel.

51. (new) The method from claim 45, wherein said attaching of said spar to said machine tool comprises

attaching said position measuring device by inserting screws in said holes

in said machine tool.

52. (new) The method from claim 45, wherein said attaching of said position measuring device to said spar comprises inserting said position measuring device into said spar.

53. (new) The method from claim 45, wherein said attaching said template to said reading head bracket comprises aligning said template with respect to said reading head bracket.

54. (new) The method from claim 53, wherein said attaching said template to said reading head bracket further comprises aligning said template with respect to the axis of travel.